

Appl. No. 09/848,159  
Reply to Office action of June 2, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

---

C1  
1. (Currently amended) A method for treating hyperlipidemia in a mammal, said method comprises a step of administering to said mammal an effective amount of an RAR antagonist or an RAR inverse agonist ~~to treat hyperlipidemia caused other than by the administration of retinoids to the mammal~~ without coadministering a retinoid to said mammal.

2. (Original) A method of claim 1 wherein said RAR is selected from the group consisting of RAR $\alpha$ , RAR $\beta$ , and RAR $\gamma$ .

3. (Original) A method of claim 1 wherein said RAR antagonist or an RAR inverse agonist is effective to lower the level of circulating lipid in a mammal, including a human being.

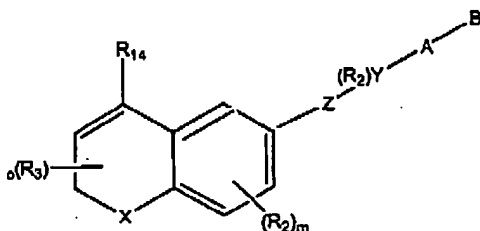
4. (Original) A method of claim 1 wherein said RAR antagonist or an RAR inverse agonist is effective to lower the level of circulating triglyceride in a mammal, including a human being.

5. (Previously presented) A method of claim 1 wherein said RAR antagonist or an RAR inverse agonist acts as a prophylaxis of myocardial infarction.

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

6. (Original) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



wherein X is S, O, NR' where R' is H or alkyl of 1 to 6 carbons, or

X is  $[C(R_1)_2]_n$  where  $R_1$  is independently H or alkyl of 1 to 6 carbons, and n is an integer between, and including, 0 and 2, and;

$R_2$  is independently hydrogen, lower alkyl of 1 to 6 carbons, F, Cl, Br, I,  $CF_3$ , fluoro substituted alkyl of 1 to 6 carbons, OH, SH, alkoxy of 1 to 6 carbons, or alkylthio of 1 to 6 carbons, and;

$R_3$  is independently hydrogen, lower alkyl of 1 to 6 carbons or F, and;-

m is an integer having the value of 0 - 3, and;

o is an integer having the value of 0 - 3, and;

Z is  $-C\equiv C-$ ,

$-N=N-$ ,

$-N=CR_1-$ ,

$-CR_1=N$ ,

$-(CR_1=CR_1)_{n'}$  - where  $n'$  is an integer having the value 0 - 5,

$-CO-NR_1-$ ,

$-CS-NR_1-$ ,

$-NR_1-CO$ ,

$-NR_1-CS$ ,

$-COO-$ ,

$-OCO-$ ;

$-CSO-$ ;

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

-OCS-;

Y is a phenyl or naphthyl group, or heteroaryl selected from a group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazolyl, oxazolyl, imidazolyl and pyrrazolyl, said phenyl and heteroaryl groups being optionally substituted with one or two  $R_2$  groups, or

when Z is  $-(CR_1=CR_1)_{n'}$  and  $n'$  is 3, 4 or 5 then Y represents a direct valence bond between said  $(CR_2=CR_2)_n$  group and B;

A is  $(CH_2)_q$  where q is 0-5, lower branched chain alkyl having 3-6 carbons, cycloalkyl having 3-6 carbons, alkenyl having 2-6 carbons and 1 or 2 double bonds, alkynyl having 2-6 carbons and 1 or 2 triple bonds;

B is hydrogen, COOH or a pharmaceutically acceptable salt thereof,  $COOR_8$ ,  $CONR_9R_{10}$ ,  $-CH_2OH$ ,  $CH_2OR_{11}$ ,  $CH_2OCOR_{11}$ , CHO,  $CH(OR_{12})_2$ ,  $CHOR_{13}O$ ,  $-COR_7$ ,  $CR_7(OR_{12})_2$ ,  $CR_7OR_{13}O$ , or tri-lower alkylsilyl, where  $R_7$  is an alkyl, cycloalkyl or alkenyl group containing 1 to 5 carbons,  $R_8$  is an alkyl group of 1 to 10 carbons or trimethylsilylalkyl where the alkyl group has 1 to 10 carbons, or a cycloalkyl group of 5 to 10 carbons, or  $R_8$  is phenyl or lower alkylphenyl,  $R_9$  and  $R_{10}$  independently are hydrogen, an alkyl group of 1 to 10 carbons, or a cycloalkyl group of 5-10 carbons, or phenyl or lower alkylphenyl,  $R_{11}$  is lower alkyl, phenyl or lower alkylphenyl,  $R_{12}$  is lower alkyl, and  $R_{13}$  is divalent alkyl radical of 2-5 carbons, and

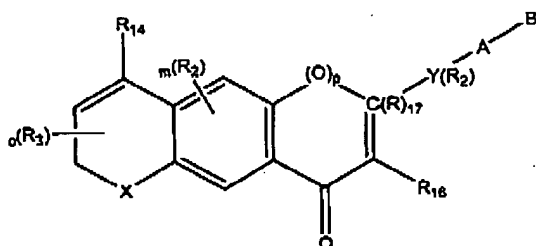
$R_{14}$  is  $(R_{15})_r$ -phenyl,  $(R_{15})_r$ -naphthyl, or  $(R_{15})_r$ -heteroaryl where the heteroaryl group has 1 to 3 heteroatoms selected from the group consisting of O, S and N, r is an integer having the values of 0 - 5, and

$R_{15}$  is independently H, F, Cl, Br, I,  $NO_2$ ,  $N(R_8)_2$ ,  $N(R_8)COR_8$ ,  $NR_8CON(R_8)_2$ , OH,  $OCOR_8$ ,  $OR_8$ , CN, an alkyl group having 1 to 10 carbons, fluoro substituted alkyl group having 1 to 10 carbons, an

Appl. No. 09/848,159  
 Reply to Office action of June 2, 2003

alkenyl group having 1 to 10 carbons and 1 to 3 double bonds, alkynyl group having 1 to 10 carbons and 1 to 3 triple bonds, or a trialkylsilyl or trialkylsilyloxy group where the alkyl groups independently have 1 to 6 carbons.

7. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



wherein X is S, O, NR' where R' is H or alkyl of 1 to 6 carbons, or

X is  $[C(R_1)_2]_n$  where  $R_1$  is independently H or alkyl of 1 to 6 carbons, and n is an integer between, and including, 0 and 2, and;

$R_2$  is independently hydrogen, lower alkyl of 1 to 6 carbons, F, Cl, Br, I,  $CF_3$ , fluoro substituted alkyl of 1 to 6 carbons, OH, SH, alkoxy of 1 to 6 carbons, or alkylthio of 1 to 6 carbons, and;

$R_3$  is independently hydrogen, lower alkyl of 1 to 6 carbons or F, and;

m is an integer having the value of 0, 1, 2, or 3, and;

o is an integer having the value of 0, 1, 2, or 3, and;

Y is a phenyl or naphthyl group, or heteroaryl selected from a group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazolyl, oxazolyl, imidazolyl and pyrazolyl, said phenyl and heteroaryl groups being optionally substituted with one or two  $R_2$  groups, and;

Appl. No. 09/848,159  
Reply to Office action of June 2, 2003

A is  $(CH_2)_q$  where q is 0-5, lower branched chain alkyl having 3-6 carbons, cycloalkyl having 3-6 carbons, alkenyl having 2-6 carbons and 1 or 2 double bonds, alkynyl having 2-6 carbons and 1 or 2 triple bonds, and;

C1  
cont

B is hydrogen, COOH or a pharmaceutically acceptable salt thereof,  $COOR_8$ ,  $CONR_9R_{10}$ ,  $-CH_2OH$ ,  $CH_2OR_{11}$ ,  $CH_2OCOR_{11}$ , CHO,  $CH(OR_{12})_2$ ,  $CHOR_{13}O$ ,  $-COR_7$ ,  $CR_7(OR_{12})_2$ ,  $CR_7OR_{13}O$ , or tri-lower alkylsilyl, where  $R_7$  is an alkyl, cycloalkyl or alkenyl group containing 1 to 5 carbons,  $R_8$  is an alkyl group of 1 to 10 carbons or trimethylsilylalkyl where the alkyl group has 1 to 10 carbons, or a cycloalkyl group of 5 to 10 carbons, or  $R_8$  is phenyl or lower alkylphenyl,  $R_9$  and  $R_{10}$  independently are hydrogen, an alkyl group of 1 to 10 carbons, or a cycloalkyl group of 5-10 carbons, or phenyl or lower alkylphenyl,  $R_{11}$  is lower alkyl, phenyl or lower alkylphenyl,  $R_{12}$  is lower alkyl, and  $R_{13}$  is divalent alkyl radical of 2-5 carbons, and;

$R_{14}$  is  $(R_{15})_r$ -phenyl,  $(R_{15})_r$ -naphthyl, or  $(R_{15})_r$ -heteroaryl where the heteroaryl group has 1 to 3 heteroatoms selected from the group consisting of O, S and N, r is an integer having the values of 0, 1, 2, 3, 4 or 5, and;

$R_{15}$  is independently H, F, Cl, Br, I,  $NO_2$ ,  $N(R_8)_2$ ,  $N(R_8)COR_8$ ,  $NR_8CON(R_8)_2$ , OH,  $OCOR_8$ ,  $OR_8$ , CN, an alkyl group having 1 to 10 carbons, fluoro substituted alkyl group having 1 to 10 carbons, an alkenyl group having 1 to 10 carbons and 1 to 3 double bonds, alkynyl group having 1 to 10 carbons and 1 to 3 triple bonds, or a trialkylsilyl or trialkylsilyloxy group where the alkyl groups independently have 1 to 6 carbons, and;

$R_{16}$  is H, lower alkyl of 1 to 6 carbons, and;

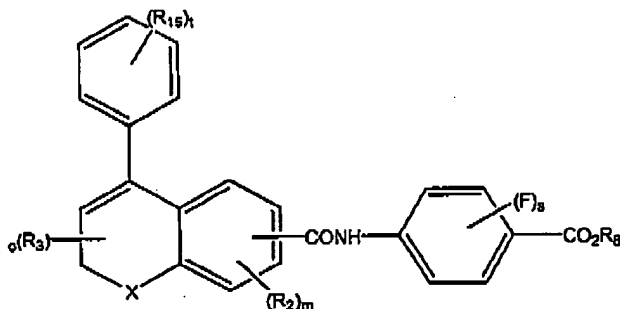
$R_{17}$  is H, lower alkyl of 1 to 6 carbons, OH or  $OCOR_{11}$ , and;

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

p is zero or 1, with the proviso that when p is 1 then there is no  $R_{17}$  substituent group, and m is an integer between, and including, 0 and 2.

8. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



where X is  $C(R_1)_2$  or O, and;

$R_1$  is H or alkyl of 1 to 6 carbons, and;

$R_2$  is independently lower alkyl of 1 to 6 carbons, F, Cl, Br, I,  $CF_3$ , fluoro substituted alkyl of 1 to 6 carbons, OH, SH, alkoxy of 1 to 6 carbons, or alkylthio of 1 to 6 carbons, and;

m is an integer having the value of 0-3, and;

$R_3$  is independently lower alkyl of 1 to 6 carbons or F, and;

o is an integer having the value of 0-3, and;

s is an integer having the value of 1-3, and;

$R_8$  is an alkyl group of 1 to 10 carbons or trimethylsilylalkyl where the alkyl group has 1 to 10 carbons, or a cycloalkyl group of 5 to 10 carbons, or  $R_8$  is phenyl or lower alkylphenyl, and;

$R_{15}$  is independently H, F, Cl, Br, I,  $NO_2$ ,  $N(R_8)_2$ ,  $COR_8$ ,  $NR_8CON(R_8)_2$ ,  $OCOR_8$ ,  $OR_8$ , CN, an alkyl group having 1 to 10 carbons, fluoro substituted alkyl group having 1 to 10 carbons, an alkenyl group having 1 to 10 carbons and 1 to 3 double bonds,

Appl. No. 09/848,159

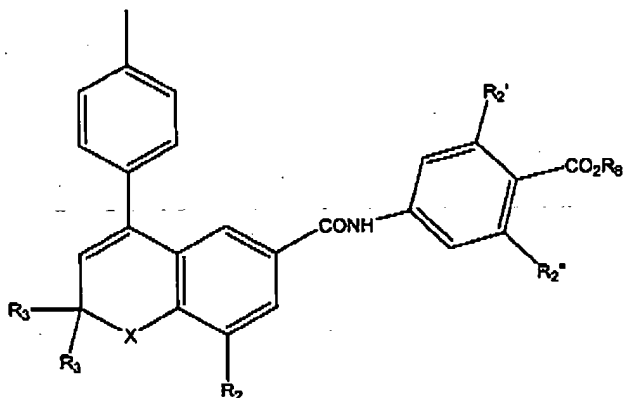
Reply to Office action of June 2, 2003

an alkynyl group having 1 to 10 carbons and 1 to 3 triple bonds, or a trialkylsilyl or trialkylsilyloxy group where the alkyl groups independently have 1 to 6 carbons, and;

t is an integer having the values of 0, 1, 2, 3, 4, or 5, and;

the CONH group is in the 6 or 7 position of the benzopyran, and in the 2 or 3 position of the dihydronaphthalene ring, or a pharmaceutically acceptable salt of said compound.

9. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



where X is C(CH<sub>3</sub>)<sub>2</sub> or O, and;

R<sub>2</sub> is H or Br, and;

R<sub>2</sub>' and R<sub>2</sub>'' independently are H or F, and;

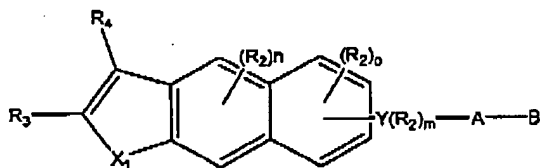
R<sub>3</sub> is H or CH<sub>3</sub>, and;

R<sub>8</sub> is H, lower alkyl of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

Appl No. 09/848,159

Reply to Office action of June 2, 2003

10. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



wherein  $X_1$  is:  $-C(R_1)_2-$ ,  $-C(R_1)_2-C(R_1)_2-$ ,  $-S-$ ,  $-O-$ ,  $-NR_1-$ ,  $-C(R_1)_2-O-$ ,  $-C(R_1)_2-S-$ , or  $C(R_1)_2-NR_1-$ ; and

$R_1$  is independently H or alkyl of 1 to 6 carbons; and

$R_2$  is optional and is independently defined as lower alkyl of 1 to 6 carbons, F, Cl, Br, I,  $CF_3$ , fluoro substituted alkyl of 1 to 6 carbons, OH SH, alkoxy of 1 to 6 carbons, or alkylthio of 1 to 6 carbons; and

$m$  is an integer between, and including, 0 and 4; and

$n$  is an integer between, and including, 0 and 2; and

$o$  is an integer between, and including, 0 and 3; and

$R_3$  is H, lower alkyl of 1 to 6 carbons, F, Cl, Br or I; and

$R_4$  is  $(R_5)_p$ -phenyl,  $(R_5)_p$ -naphthyl,  $(R_5)_p$ -heteroaryl where the heteroaryl group is five-membered or 6-membered and has 1 to 3 heteroatoms selected from the group consisting of O, S, and N; and

$p$  is an integer between, and including, 0 and 5; and

$R_5$  is optional and is defined as independently F, Cl, Br, I,  $NO_2$ ,  $N(R_8)_2$ ,  $N(R_8)COR_8$ ,  $N(R_8)CON(R_8)_2$ , OH,  $OCOR_8$ ,  $OR_8$ , CN, COOH,  $COOR_8$ , an alkyl group having from 1 to 10 carbons, an alkenyl group having from 1 to 10 carbons and 1 to three double bonds, alkynyl group having from 1 to 10 carbons and 1 to 3 triple bonds, or a (trialkyl)silyl or (trialkyl)silyloxy group where the alkyl groups independently have from 1 to 6 carbons; and



Appl. No. 09/848,159  
Reply to Office action f June 2, 2003

Y is a phenyl or naphthyl group, or a heteroaryl selected from the group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazolyl, oxazolyl, imidazolyl and pyrrazolyl, said phenyl and heteroaryl groups being optionally substituted with one or two  $R_2$  groups, or Y is  $-(CR_3=CR_3)_r-$ ; and

r is an integer between, and including, 1 and 3; and

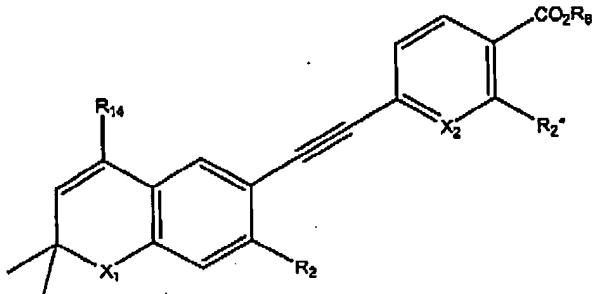
C1  
Cont  
A is  $(CH_2)_q$  where q is an integer from 0-5, lower branched chain alkyl having from 3 to 6 carbons, cycloalkyl having from 3 to 6 carbons, alkenyl having from 2 to 6 carbons and 1 or 2 double bonds, alkenyl having from 2 to 6 carbons and 1 or 2 triple bonds, with the proviso that when Y is  $-(CR_3=CR_3)_r-$  then A is  $(CH_2)_q$  and q is 0; and

B is H, COOH or a pharmaceutically acceptable salt thereof,  $COOR_8$ ,  $CONR_9R_{10}$ ,  $-CH_2OH$ ,  $CH_2OR_{11}$ ,  $CH_2OCOR_{11}$ , CHO,  $CH(OR_{12})_2$ ,  $CHOR_{13}O$ ,  $-COR_7$ ,  $CR_7(OR_{12})_2$ ,  $CR_7OR_{13}O$ , or  $Si(C_{1-6}alkyl)_3$ , wherein  $R_7$  is an alkyl, cycloalkyl or alkenyl group containing 1 to 5 carbons,  $R_8$  is an alkyl group of 1 to 10 carbons or (trimethylsilyl)alkyl, where the alkyl groups has 1 to 10 carbons, or a cycloalkyl group of 5 to 10 carbons, or  $R_8$  is phenyl or lower alkylphenyl,  $R_9$  and  $R_{10}$  independently are H, a lower alkyl group of 1 to 10 carbons, or a cycloalkyl group of 5-10 carbons, or phenyl or lower alkylphenyl,  $R_{11}$  is lower alkyl, phenyl or lower alkylphenyl,  $R_{12}$  is lower alkyl, and  $R_{13}$  is a divalent alkyl radical of 2-5 carbons.

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

11. (Original) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



where  $X_1$  is S or O;

$X_2$  is CH or N;

R<sub>2</sub> is H, F, CF<sub>3</sub> or alkoxy of 1 to 6 carbons;

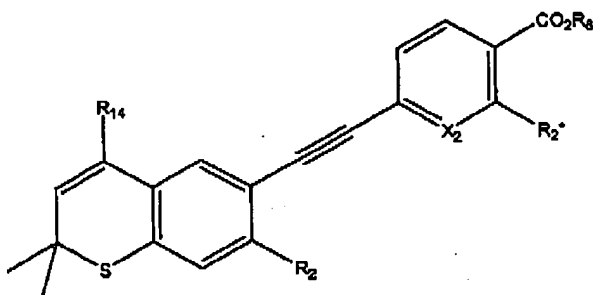
$$R_2^* \text{ is H, F, or CF}_3;$$

R<sub>8</sub> is H, or lower alkyl of 1 to 6 carbons;

R<sub>14</sub> is unsubstituted phenyl, thienyl or pyridyl, or phenyl, thienyl or pyridyl substituted with one to three R<sub>15</sub> groups, where R<sub>15</sub> is lower alkyl of 1 to 6 carbons, chlorine, CF<sub>3</sub>, or alkoxy of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

Appl. No. 09/848,159  
Reply to Office action of June 2, 2003

12. (Original) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



wherein  $X_2$  is CH or N, and;

$R_2$  is H, F, or  $OCH_3$ , and;

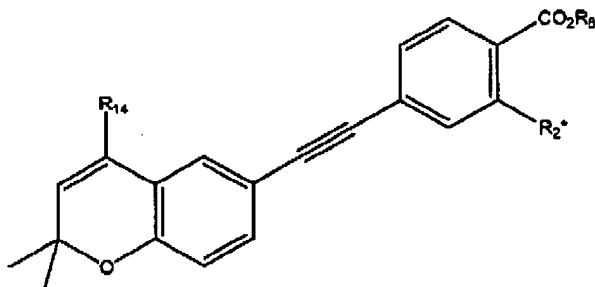
$R_2^*$  is H or F, and;

$R_8$  is H, or lower alkyl of 1 to 6 carbons, and;

$R_{14}$  is selected from the group consisting of phenyl, 4-(lower-alkyl)phenyl, 5-(lower alkyl)-2-thienyl, and 6-(lower alkyl)-3-pyridyl where lower alkyl has 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

Appl. No. 09/848,159  
Reply to Office action of June 2, 2003

13. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:

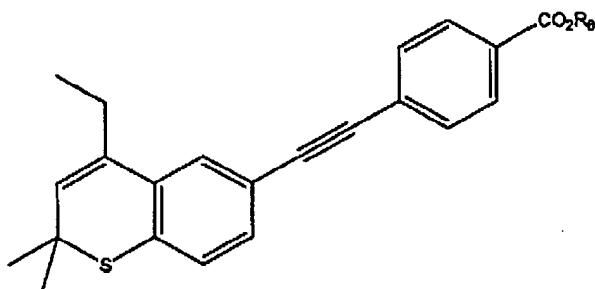


where  $R_2^*$  is H or F;

$R_8$  is H, or lower alkyl of 1 to 6 carbons, and

$R_{14}$  is selected from the group consisting of phenyl, and 4-(lower-alkyl)phenyl, where lower alkyl has 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

14. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:

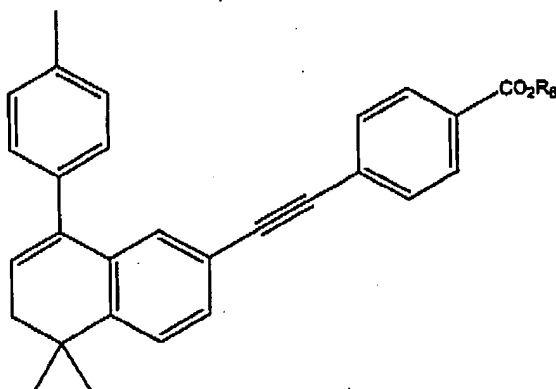


where  $R_8$  is H, lower alkyl of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

15. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



where  $R_8$  is H, lower alkyl of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

16. (Original) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



Where  $Y_1$  is phenyl, naphthyl, or heteroaryl selected from the group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazonyl, ozazoly, imidazolyl, and pyrrazolyl, said phenyl, naphthyl, and heteroaryl groups being substituted with an  $R_1$  group, and further substituted or unsubstituted with one or two  $R_2$  groups;

$R_1$  is  $C_{1-10}$  alkyl, 1-ademantyl, 2-tetrahydropyranoxy, trialkylsilanyloxy where alkyl has up to 6 carbons, OH, alkoxy where the alkyl group has up to 10 carbons, alkylthio where the alkyl group has up to 10 carbons, or  $OCH_2OC_{1-6}$  alkyl;

$R_2$  is lower alkyl of 1 to 6 carbons, F, Cl, Br, I,  $CF_3$ ,  $CF_2CF_3$ , OH,  $OR_3$ ,  $NO_2$ ,  $N(R_3)_2$ , CN,  $N_3$ ,  $COR_3$ ,  $NHCOR_3$ ,  $COOH$ , or  $COOR_3$ ;

X is  $(C(R_3)_2)$ , S, SO,  $SO_2$ , O or  $NR_3$ ;

Z is  $-C\equiv C-$ ,

$-N=N-$ ,

Appl. No. 09/848,159

Reply to Office action of June 2, 2003

-N(O)=N-,

-N=N(O)-,

-N=CR<sub>3</sub>-,-CR<sub>3</sub>=N,-(CR<sub>3</sub>=CR<sub>3</sub>)<sub>n</sub>- where n is an integer having the value 0 - 5,-CO-NR<sub>3</sub>-,-CS-NR<sub>3</sub>-,-NR<sub>3</sub>-CO,-NR<sub>3</sub>-CS,

-COO-,

-OCO-;

-CSO-;

-OCS-; or

-CO-CR<sub>3</sub>=R<sub>3</sub>-O,R<sub>3</sub> is independently H or lower alkyl of 1 to 6 carbons;

Y<sub>2</sub> is a phenyl or naphthyl group, or heteroaryl selected from a group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazolyl, oxazolyl, imidazolyl and pyrrazolyl, said phenyl, naphthyl and heteroaryl groups being unsubstituted or substituted with one or two R<sub>2</sub> groups, or

when Z is -(CR<sub>3</sub>=CR<sub>3</sub>)<sub>n</sub>- and n is 3, 4 or 5 then Y<sub>2</sub> represents a direct valence bond between said -(CR<sub>3</sub>=CR<sub>3</sub>)<sub>n</sub> group and B;

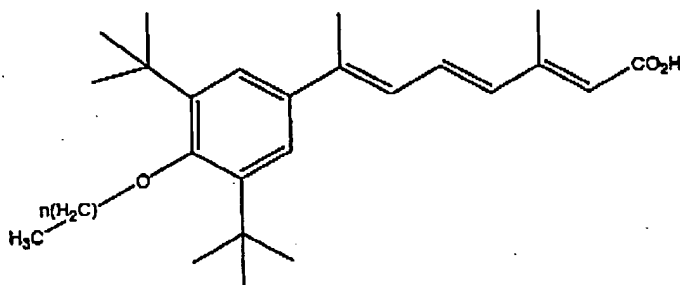
Y<sub>3</sub> is phenyl, naphthyl, or heteroaryl selected from a group consisting of pyridyl, thienyl, furyl, pyridazinyl, pyrimidinyl, pyrazinyl, thiazolyl, oxazolyl, imidazolyl and pyrrazolyl, said phenyl, naphthyl and heteroaryl groups being unsubstituted or substituted with one to three R<sub>4</sub> groups, where R<sub>4</sub> is alkyl of 1 to 10 carbons, fluoro-substituted alkyl of 1 to 10 carbons, alkenyl of 2 to 10 carbons and having 1 to 3 triple bonds, F, Cl, Br, I, NO<sub>2</sub>, CN, NR<sub>3</sub>, N<sub>3</sub>, COOH, COOC<sub>1-6</sub> alkyl, OH, SH, OC<sub>1-6</sub> alkyl, and SC<sub>1-6</sub> alkyl;

Appl. No. 09/848,159  
 Reply to Office action of June 2, 2003

A is  $(CH_2)_q$  where  $q$  is from 0-5, lower branched alkyl having 3-6 carbons, cycloalkyl having 3-6 carbons, alkenyl, having 2-6 carbons and 1-2 double bonds, alkynyl having 2-6 carbons and 1 to 2 triple bonds, and

*C1 Cont*  
 B is hydrogen, COOH or a pharmaceutically acceptable salt thereof,  $COOR_8$ ,  $CONR_9R_{10}$ ,  $-CH_2OH$ ,  $CH_2OR_{11}$ ,  $CH_2OCOR_{11}$ ,  $CHO$ ,  $CH(OR_{12})_2$ ,  $CHOR_{13}O$ ,  $-COR_7$ ,  $CR_7(OR_{12})_2$ ,  $CR_7OR_{13}O$ , or  $Si(C_{1-6} \text{ alkyl})_3$ , where  $R_7$  is an alkyl, cycloalkyl or alkenyl group containing 1 to 5 carbons,  $R_8$  is an alkyl group of 1 to 10 carbons or trimethylsilylalkyl where the alkyl group has 1 to 10 carbons, or a cycloalkyl group of 5 to 10 carbons, or  $R_8$  is phenyl or lower alkylphenyl,  $R_9$  and  $R_{10}$  independently are hydrogen, an alkyl group of 1 to 10 carbons, or a cycloalkyl group of 5-10 carbons, or phenyl or lower alkylphenyl,  $R_{11}$  is lower alkyl, phenyl or lower alkylphenyl,  $R_{12}$  is lower alkyl, and  $R_{13}$  is divalent alkyl radical of 2-5 carbons, or a pharmaceutically acceptable salt of said compound.

17. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:

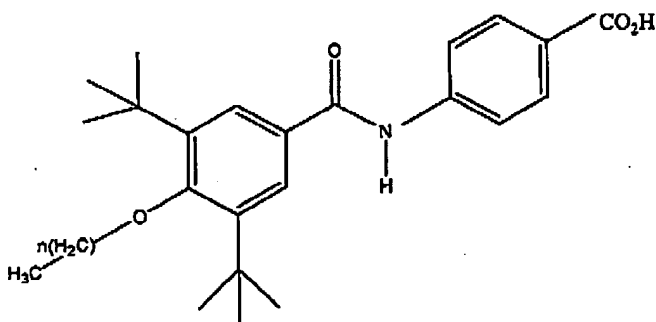


where  $n$  is an integer from 1 to 10.

Appl. No. 09/848,159

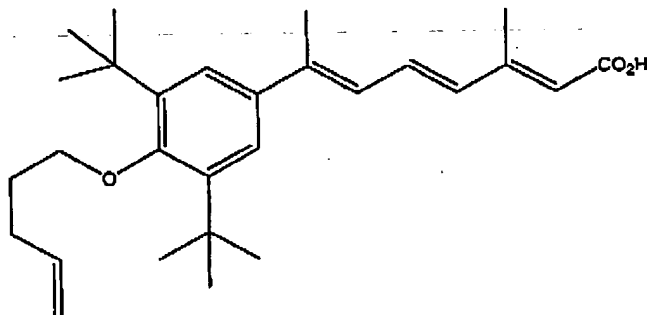
Reply to Office action of June 2, 2003

18. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:

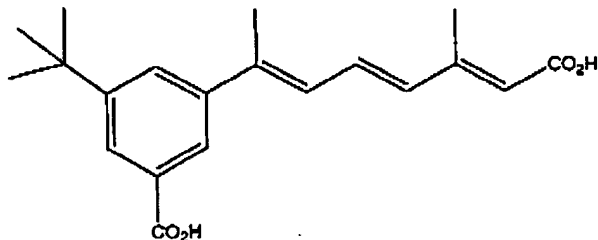


where n is an integer from 1 to 10.

19. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



20. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:

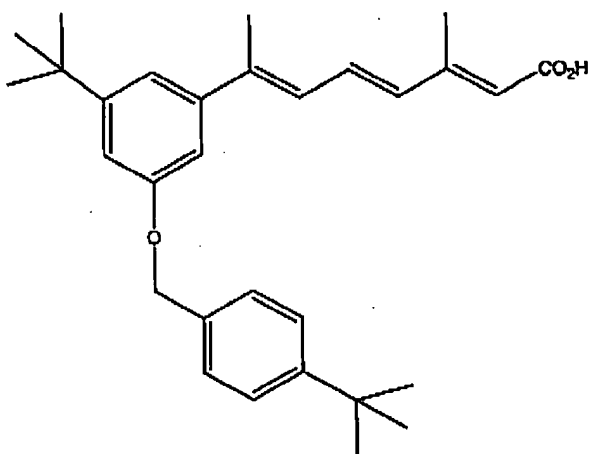




Appl. No. 09/848,159

Reply to Office action of June 2, 2003

21. (Withdrawn) A method of claim 1 wherein said RAR antagonist or RAR inverse agonist has the chemical structure:



22. (Original) A method of claim 1 wherein the RAR antagonist or an RAR inverse agonist is administered orally.

23. (Original) A method of claim 1 wherein the RAR antagonist or an RAR inverse agonist is administered topically.

24. (Original) A method of claim 1 wherein the RAR antagonist or an RAR inverse agonist is administered systemically.

25. (Currently amended) A method for treating hyperlipidemia in a mammal, said method comprises a step of administering to said mammal an effective amount of 4-[[4-(4-ethylphenyl)-2,2-dimethyl-(2H)-thiochromen-6-yl]-ethynyl]-benzoic acid ~~to treat hyperlipidemia caused other than by the~~

Appl. No. 09/848,159  
Reply to Office action of June 2, 2003

~~administration of retinoids to the mammal~~ without  
coadministering a retinoid to said mammal.

C1  
Cont  
26. (Previously presented) A method of claim 24 wherein the step of administering 4-[[4-(4-ethylphenyl)-2,2-dimethyl-(2H)-thiochromen-6-yl]-ethynyl]-benzoic acid lowers the level of circulating triglycerides.

---